

H8069

LINEAR HEAT DETECTION (LHD)

180°C / 356°F

(177°C / 350°F min - 189°C / 372°F max)

LINESENSE

Fire Detection Ltd

www.linesense.co.uk



General

The simple and proven technology of digital Linear Heat Detection (LHD) cable, makes it a product of choice for difficult and challenging applications where other technologies struggle to work.

With its ease of installation and low maintenance it also provides a cost effective solution where project expenditure requires to be kept at a minimum.

The sensing cable is formed from a pair of twisted steel conductors each with temperature sensitive insulation and then an overall PVC outer sleeve. When the temperature sensitive insulation reaches its predetermined alarm temperature the two conductors short together providing the digital or switched signal.

The cable can be connected to any unit capable of monitoring a switched signal, i.e. Conventional fire panel, addressable switch monitor unit or PLC.

The PVC outer sleeve of the H8069 offers good UV resistance allowing it to be deployed in external applications.



Features

Simple digital switch operation

Continuous sensing along the total length of the element.

Fixed alarm temperature unaffected by changes in ambient temperature.

Compatible with switch monitoring units and conventional alarm panels.

Suitable for use in Hazardous areas using safety barriers.

UV resistant PVC outer sleeve.

Rugged and durable construction.

Simple maintenance free installation.

Small diameter and bend radius.

FM Approved,

Applications

Conveyors / bearing protection

Escalators, moving walkways.

Cable tunnel / tray protection

Road and rail tunnels

Road and rail motor compartments

Electrical switch gear & transformers

Refrigerated rooms and cold stores.

Building exteriors under eaves

Motor and pump overheat detection.

Dirty and dusty environments.

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Specifications.

Alarm temperature :	180°C	356°F
Max ambient temperature :	105°C	221°F
Min operating temperature :	-40°C	-40°F
Min installation temperature :	0°C	32°F

Time to detect small flame : 20 sec (Flame touching)

Mechanical

Cable diameter :	4.25mm ±0.1mm
Sheath colour :	Red
Number of cores:	2
Core colours:	Black and Black/White.
Core diameters :	1.5mm ±0.03mm
Conductor diameter :	1/0.9mm Tinned Copper Clad Steel (TCCS)
Minimum bend radius :	50mm (Cold store 100mm)
Weight :	21.0Kg/Km on the reel. (weight of reel typically 2Kg)

Electrical

Resistance :	100 ohms / Km max @ 20°C
Capacitance :	45 pF/m to 130 pF/m
Inductance :	0.74 µH/m to 1.3 µH/m
Voltage rating :	110vdc 1amp

Approvals : FM 3210

Ordering Information

Part Number	Description
51100-176	H8069 sensing cable 180°C Alarm temperature Red PVC outer sleeve. (ordered by the meter)

Optional

52100-001	DLI-2K Digital Location Interface 2Km (SIL-2 Approved)
52100-003	DLI-10K Digital Location Interface 10Km
52101-001-28	DIM Digital Interface Module DIN rail mounted (SIL-2 Approved)
52101-001	DIM Digital Interface Module DIN rail mounted (SIL-2 Approved)
53000-001	Portable test oven 1m